

Safety Data Sheet for Retroplast

1. Names of Material, Preparation and Company

Trade name: Retroplast™
 Manufacturer: Endoplast ApS, Postvej 1, DK-4652 Hårlev, Denmark
 Phone: (+45) 23722599, E-mail: info@retroplast.com
 Application: Retrograde endodontic sealing of tooth roots

2. Possible Risk

Designation of risk

Warning



Danger



H315: Causes skin irritation
 H317: May cause an allergic skin reaction
 H319: Causes serious eye irritation
 H335: May cause respiratory irritation

Ytterbium (III) fluoride as a powder can react with an acid to form hydrogen fluoride (HF), which is toxic and corrosive. In the product Retroplast Ytterbium (III) fluoride is bound in the resin which is water-free and water-repellent (hydrophobic). Ytterbium (III) fluoride will not be able to react with acids (in water) and will therefore not be able to form hydrogen fluoride. The amount of Retroplast per operation is less than 100 mg (48 mg of Ytterbium (III) fluoride). This combined with the hydrophobic property of the product results in the classification "warning".

3. Composition/Details of Components

Preparation: Radiopaque, chemically cured two-component composite containing BisGMA, TEGDMA, ytterbiumtrifluoride, colloidal silicon dioxide, ferric oxide and a catalyst system

Hazardous ingredients	Pasta A	Pasta B	CAS-nr.	Symbol	H-categories Text: See section 16. Other Particulars
BisGMA	21,7%	21,9%	1565-94-2	 Warning	H 315, H317, H319,
TEGDMA	21,7%	21,9%	109-16-0	 Warning	H 315, H317, H319, H335
Ytterbium (III) fluoride	48,1%	48,7%	13760-80-0	 Danger	H301 + H311 + H331.

4. First-Aid Measures

After inhalation: In case of indisposition or nausea - seek fresh air
 In case of further indisposition - contact a physician
 After skin contact: Wash thoroughly with water and soap
 After eye contact: Rinse immediately the eyes with plenty of water at least in 15 min.
 Open up the eyes wide during the rinsing. Contact a physician
 After swallowing: First aid not necessary.

5. Fire Fighting Measures	
Suitable agents:	Water, carbon dioxide, powder fire extinguishers
Particular hazards:	Decomposition forms carbon oxide and carbon dioxide
6. Measures in Case of Unintended Release	
Spill:	Take up mechanically, use napkins or clothes
Disposal:	See point 13
Personal protective equipment:	See point 8
7. Handling and Storage	
Storage:	Cool, tightly closed in well-ventilated rooms and areas. Keep out of the reach of children
Should be avoided:	Heat
8. Exposition Restriction and Personal Protective Equipment:	
Exposition control:	Avoid contact with eyes and skin. Use only in well-ventilated rooms
Personal protective equipment:	Working clothes, gloves and protective glasses is recommended
9. Physical and Chemical Properties	
Appearance:	Paste A: red paste. Paste B: white paste
Odour:	light acrylate-like
Solubility in water:	Not soluble
Density:	About 2
10. Stability and Reactivity	
Hazardous products of decomposition:	Carbon oxide and carbon dioxide
11. Toxicological Data	
Inhalation:	Possible irritation of the respiratory organ
Skin contact:	Possible irritation or allergic reaction
Eye contact:	Possible irritation
12. Ecological Data:	
Hazardous for the environment:	No risk has become known
13. Disposal Instructions:	
Spill/waste:	Obey local regulations
14. Particulars on Transport	
Additional information:	Not dangerous cargo
15. Regulation	This safety datasheet is in accordance with Regulation (EU) no. 1907/2006
16. Other Particulars	Retrograde root filling
	H315: Causes skin irritation.
	H317: May cause an allergic skin reaction.
	H319: Causes serious eye irritation.
	H335: May cause respiratory irritation.
	H301 + H311 + H331: Toxic if swallowed, in contact with skin or if inhaled.
Note:	All information above has been given according to our present state of knowledge. It has been compiled to the best of our knowledge. The above-mentioned data do not represent a guarantee on characteristics. They only describe the safety requirements with regard to our products. They do not represent an assurance of product characteristics in the meaning of guarantees
Revision:	This Safety Data Sheet was prepared by M.Sc Lennart Staal-Olsen on 17.03.2016 and revised by Cand. Odont Thomas Foldberg on 19.03.2020 and 15.11.2021.